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animal is like a closed vase in which ideas develop, jostle each other, and combine. The result of the jostlings and combinations is a *détermination*, in the sense of the domination in consciousness of one or other of the ideas. In animals, as in man, this gives the illusion of choice and free intelligence. Animals in this category are capable of being persuaded, *i. e.*, of conceiving cause and effect as man conceives them. They understand when man seeks to show them by "*une mimique expressive*," the relation of cause and effect. Such mentation M. Hachet-Souplet thinks he has demonstrated in some of the higher animals. There are three sub-categories, dependent upon the degree to which the animals are subject to persuasion; and upon the presence of secondary (acquired) instincts. He is a warm partisan of the "lapsed intelligence" theory, and thinks the thesis easily demonstrable by his method of investigation. This category includes types as remote as the ant and the chimpanzee. To the higher animals are attributed imagination, abstraction, æsthetic sense, personality and other high mental powers. These attributions, however, are made guardedly and on the basis of experiment; not at all in the loose manner of Romanes, whom M. Hachet-Souplet constantly criticises.

The obvious strictures upon the book are: the somewhat superficial character of some of the psychological analysis; the ignorance or disregard for some important recent work in animal psychology—there is no mention of Morgan, Thorndike, Bethe, Wasman, Peckham *et al.*; and the fact that his zeal for the evolutionary philosophy (Spencer's) occasionally carries him, in his interpretations, beyond his facts.

Nevertheless, this book is a valuable and interesting contribution to positive comparative psychology—and, withal, brilliantly written.

W. S. SMALL.

Psychology, Empirical and Rational. (Stonyhurst Philosophical Series, No. 5.) By MICHAEL MAHER, S. J. Fourth edn., revised and enlarged. London, New York and Bombay. Longmans, Green & Co., 1900. pp. xxii, 602, xii. Price, 6/6.

In this new edition, the modifications up to ch. ix are slight, except that more space is devoted to physiology and psychophysics. Chs. xiv (origin of intellectual ideas), xvi to xix (attention and apperception; development of intellectual cognition; rational appetency; free will and determinism), xxii (false theories of the ego) and xxiv (immortality of the soul) are almost wholly new; the supplement on hypnotism, and the criticisms of the theories of James and Höfding, appear for the first time. The historical sketches have throughout been substantially increased.

For the rest, the plan and scope of the work remain as before. Thomas Aquinas is the constant standard of reference; and, while the author does good service in calling the attention of scientific psychologists to authors with whom they are but little, if at all familiar, he has himself no adequate knowledge or appreciation of the course of scientific psychology.

E. B. T.

From India to the Planet Mars: a Study of a Case of Somnambulism, with Glossolalia. By TH. FLOURNOY, Professor of Psychology at the University of Geneva. Translated by D. B. Vermilye, New York and London; Harper Bros., 1900. pp. xx, 447. Price, \$1.50.

The original of this translation was reviewed in the *American Journal of Psychology* for April, 1900 (Vol. XI, pp. 428 ff.). As, however, the book is attracting much attention, both from psychologists and from the general public, and as its contents will strike different readers very differently, I take the opportunity afforded by the appearance of